

PLATE HEAT EXCHANGER WITH ENHANCED SURFACE FEATURES

ABSTRACT

A plate heat exchanger includes a plurality of plates for providing a flow path for two fluids. The plate heat exchanger has an inlet and an outlet for each of the two fluids, wherein facing surfaces of two adjacent plates of the plurality of plates defines a flow path for a first fluid. The opposite surface of one of the two adjacent plates and a facing surface of another adjacent plate from the plurality of plates provides a flow path for a second fluid. The first fluid and the second fluid flowing along their respective flow paths are maintained in thermal communication with each other. A plurality of surface features associated with at least a portion of one surface of at least one of the plates provides enhanced heat transfer between the two fluids passing along adjacent plates.